Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

Member State of OIML
Germany

OIML Certificate N°
R60/2000-DE1-06.03

OIML CERTIFICATE OF CONFORMITY

Issuing Authority

Name:	Physikalisch-Technische Bundesanstalt
Address:	Bundesallee 100, 38116 Braunschweig
Person responsible:	Dr. Panagiotis Zervos

Applicant

Name:	Hottinger Baldwin Messtechnik GmbH
Address:	Im Tiefen See 45, 64293 Darmstadt Germany

Manufacturer of the certified type is the applicant.

Identification of the certified type

Strain gauge compression load cell

Type: RTN

Further characteristics see page 2

This Certificate attests the conformity of the above identified type (represented by the sample or samples identified in the associated Test Report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):

R60, edition 2000
for accuracy class(es) C3 ÷ C5

This Certificate relates only to the metrological and technical characteristics of the type of instrument covered by the relevant OIML Recommendation identified above.

This Certificate does not bestow any form of legal international approval.

R3-0033

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The conformity was established by the results of tests and examinations provided in the associated Test Reports

No. 1.12-4026436/1t	that includes 20 pages
No. 1.12-4026436/33t	that includes 18 pages
No. 1.12-4026436/10t	that includes 18 pages
No. 1.12-4026436/150t	that includes 23 pages

The Issuing Authority

Dr. P. Zervos
Regierungsdirektor

31.10.2006

The CIML Member

Dr. R. Schwartz
Direktor und Professor

31.10.2006

Identification of the pattern (continued)

The HBM compression strain gauge load cell type RTN is made of stainless steel, the strain gauge application is encapsulated hermetically by welding and a glass feed-through.

The metrological characteristics for application in approved weighing instruments are listed in Table 1.

Table 1

Accuracy class		C3	C4	C5	C3 MI 7,5	C4 MI 7,5
Max. number of load cell intervals	n_{LC}	3000	4000	5000	3000	4000
Maximum capacities	E_{max}	1 t* / 2,2t / 4,7t / 10t / 15t / 22t / 33t 47t / 68t / 100t / 150t / 220t / 330t / 470t	1t / 2,2t / 4,7t / 10t / 15t / 22t / 33t / 47t / 68t / 100t			
Minimum LC verification interval	v_{min} (Y)	E_{max} / 20 000	E_{max} / 24 000			
Minimum dead load output return	**DR** (Z)	---	---		½ E_{max} / 7500	

Minimum dead load 0% * E_{max} ; Safe load ≥ 150% * E_{max} ; Input resistance ~ 4,4 kΩ,
Classification symbol "MI" for application in multi-interval weighing instruments with small DR, see OIML R76;
*) RTN - C3 - 1 t also with $v_{min} = E_{max} / 10\,000$, v_{min} is indicated on name plate.

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